A. I. A. File Number 16e



WINDOW BEAUTY

TRUSCON Standard CASEMENTS

MODEL No. 5

TRUSCON
Standard
CASEMENTS
MODEL No. 5

TRUSCON Standard CASEMENTS

MODEL №5

Windows of Beauty



CATALOG No. 117
1928
SUPERSEDING No. 751

TRUSCON STEEL COMPANY, YOUNGSTOWN, OHIO
ESTABLISHED 1903
Warehouses and Offices in all Principal Cities
PACIFIC COAST FACTORY, LOS ANGELES, CAL.
FOREIGN TRADE DIVISION, 90 WEST STREET, NEW YORK CITY
TRUSSED CONCRETE STEEL COMPANY OF CANADA, LIMITED, WALKERVILLE, ONT.
THE TRUSCON LABORATORIES, DETROIT, MICHIGAN

© 1928 T. S. C.

Printed in U. S. A.







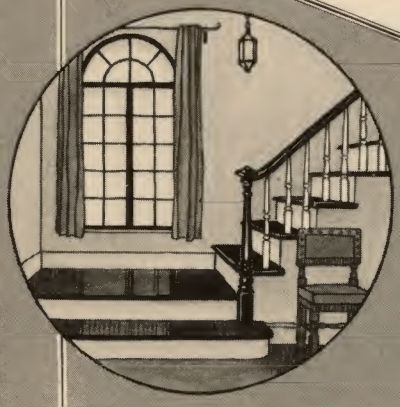
CASEMENTS

Invite Fresh Air and Sunlight

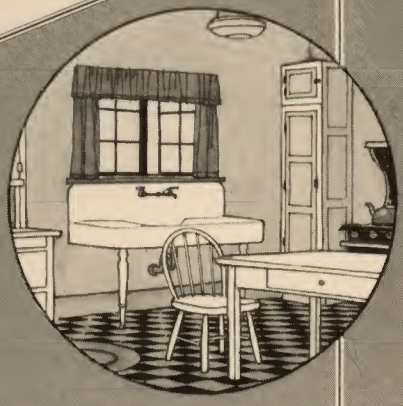
GOOD TASTE and individuality express themselves in windows, more perhaps, than in any other detail of home appointment, and in turn the windows play an important part in adding beauty to the interior and bringing the breath of out-of-doors within the four walls.

This is why Casements for all rooms are so popular. Their trim outlines and cheery atmosphere bring to the modern building all the charm and hominess of period construction. Casements are the true aristocrats of architecture; they conform perfectly to modern styles and present day requirements.

Practical and economical, too, are these sturdy windows which, with all their grace and slenderness of line, never stick or warp. They not only admit air and sunlight—they control ventilation and lighting of all rooms. Drafts and glare are eliminated; draperies and decorations are protected from dust and from the undesirable elements.







SUPERIOR FEATURES

CONSTANT effort toward the improvement in design and product resulted in the new single and one-piece combination Truscon Casements, Model No. 5 . . . Combinations do away with building up fixed and hinged units in the field, and assembling them in separate frames to fill the desired wall opening.

The new Casements are substantial in construction, economical in application, strong and rigid, fireproof, with no question of shrinkage, warping, swelling or decay.

Truscon specification steel

Casements are made from specially designed, rolled Zee bars.

Positive weathering and anchorage

Sash and frames are fabricated of two Zee shape sections that provide a broad double contact positive weathering surface.

Heavy, continuous anchors attached to head and jambs insure further weathertightness and perfect anchorage and alignment in wall.

Flush joints and intersections

All surfaces of joints between muntins and sash stiles and rails and intersections of muntins are flush on the inside.

Muntins

Horizontal and vertical muntins are continuous between stiles and rails and are of the same size.

Welded corners

All corners are mitered and electrically butt welded, making the frame members one continuous bar. The mechanical process of welding insures exact over-all size and squareness of all corners.

Wooden frames

The use of wood frames is to be avoided but Truscon Casements are easily adapted to such conditions by the omission of the continuous jamb and head angles, and securing Casements in place by using wood screws in holes provided for bolts.

Casement combinations

All units are completely assembled in the factory—eliminating all costly field labor.

Hardware

Truscon Casements are equipped with artistically designed malleable iron hardware in a Parkerized rust-proofed, dead black finish.

Solid bronze hardware can be furnished where so desired.

Hinges

For side hinged units two heavy extension type friction hinges of heavy, hot rolled sections are used—riveted to sash and welded to frame which gives additional reinforcing to the corners of frame.

The friction feature of the hinge applies the same amount of friction at the top and bottom and allows the casement to be held in any desired position without the use of mechanical adjusters.

The use of extension hinges allows for the easy cleaning of the outside of glass.

Adjusters

Three types of mechanical adjusters are applicable to Truscon Casements. They are:

(1) Sliding stay adjuster that is of the automatic locking type.
(2) Thumb screw bar adjuster.
(3) Geared type under-screen adjuster.

The bottom rails of both sash and frame are punched to receive this hardware.

Operation through screen

The use of the geared type under-screen adjuster permits the operation of the Casement through the screen, holding the window in any desired position.

Screening

Casements are screened on the inside (several practical methods) offering advantages in point of cleanliness and protection from the elements.

Draping

No interference. Casements open out.

Glazing

Outside; slope of putty acts as water drainage. Spring wire clips for holding glass supplied with casement.

Plate glass

Depth great enough to permit if desired.

Leaded glass

Muntins can be omitted and panels of any desired design can be used and set in sash frame.



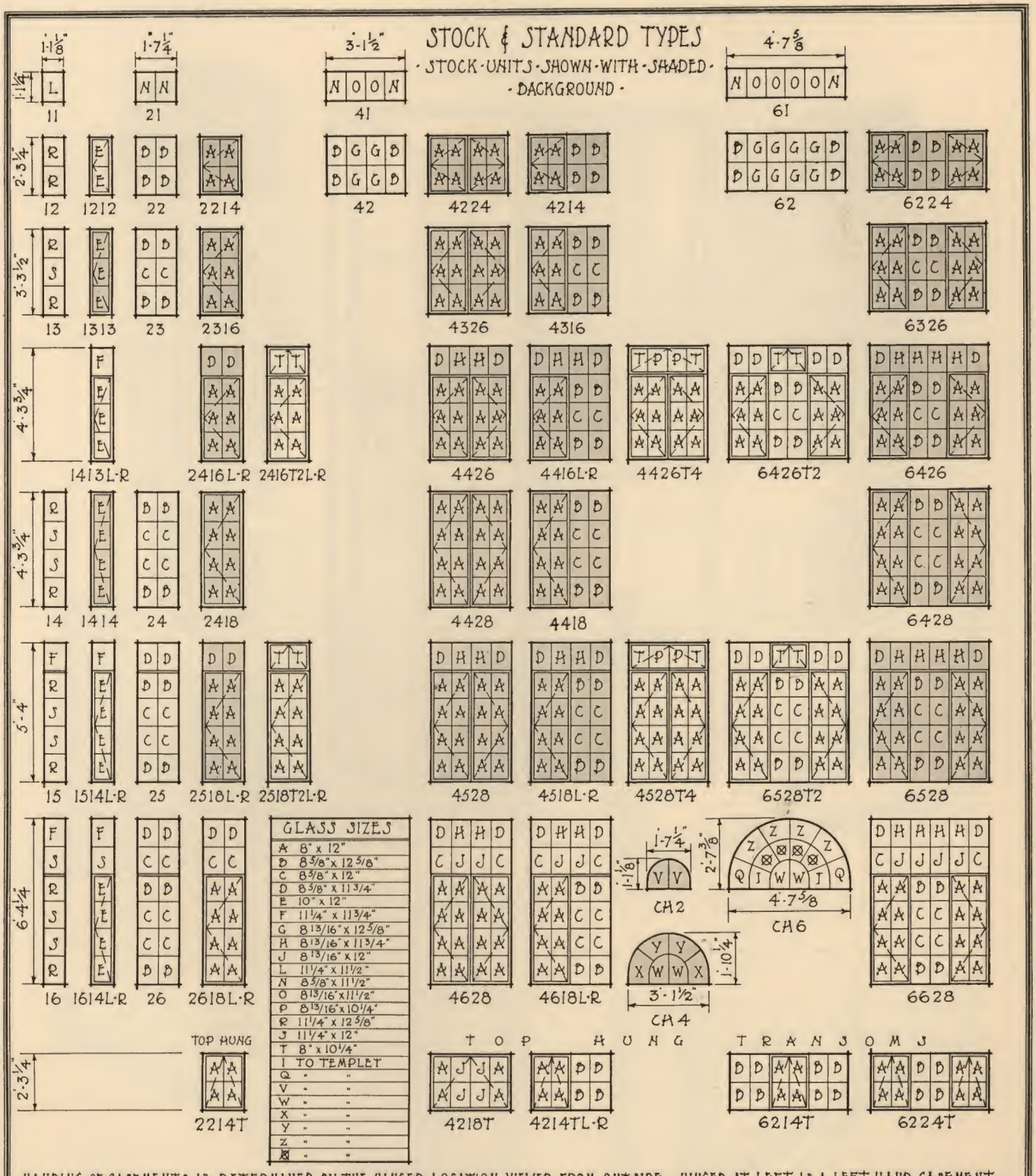
SINGLE AND COMBINATION UNITS

FACTORY built single or combination units Model No. 5 Casements are delivered complete ready to fill the opening and can be set up in place with a minimum of field labor, ready for the glazier.

They are all painted with a priming coat, even in the concealed spaces that cannot be reached when the painter applies the final coats, and it is only necessary to attach the hardware, which is shipped complete with the casement, to produce the finished opening.

The new Casements are beautiful in appearance with the latitude so desired by the architect and builder in the execution of the design, permanent and foolproof, to give lasting satisfaction and greatest investment value.





··HANDING OF CASEMENTS IS DETERMINED BY THE HINGED LOCATION VIEWED FROM OUTSIDE··· HINGED AT LEFT IS A LEFT HAND CASEMENT··· UNITS CAN BE USED FOR LEFT OR RIGHT HAND SWING EXCEPT UNITS WITH TRANSOM OR MARKED L-R ··· ALL VENTS SWING OUT ···

TRUSCON STANDARD STEEL CASEMENTS

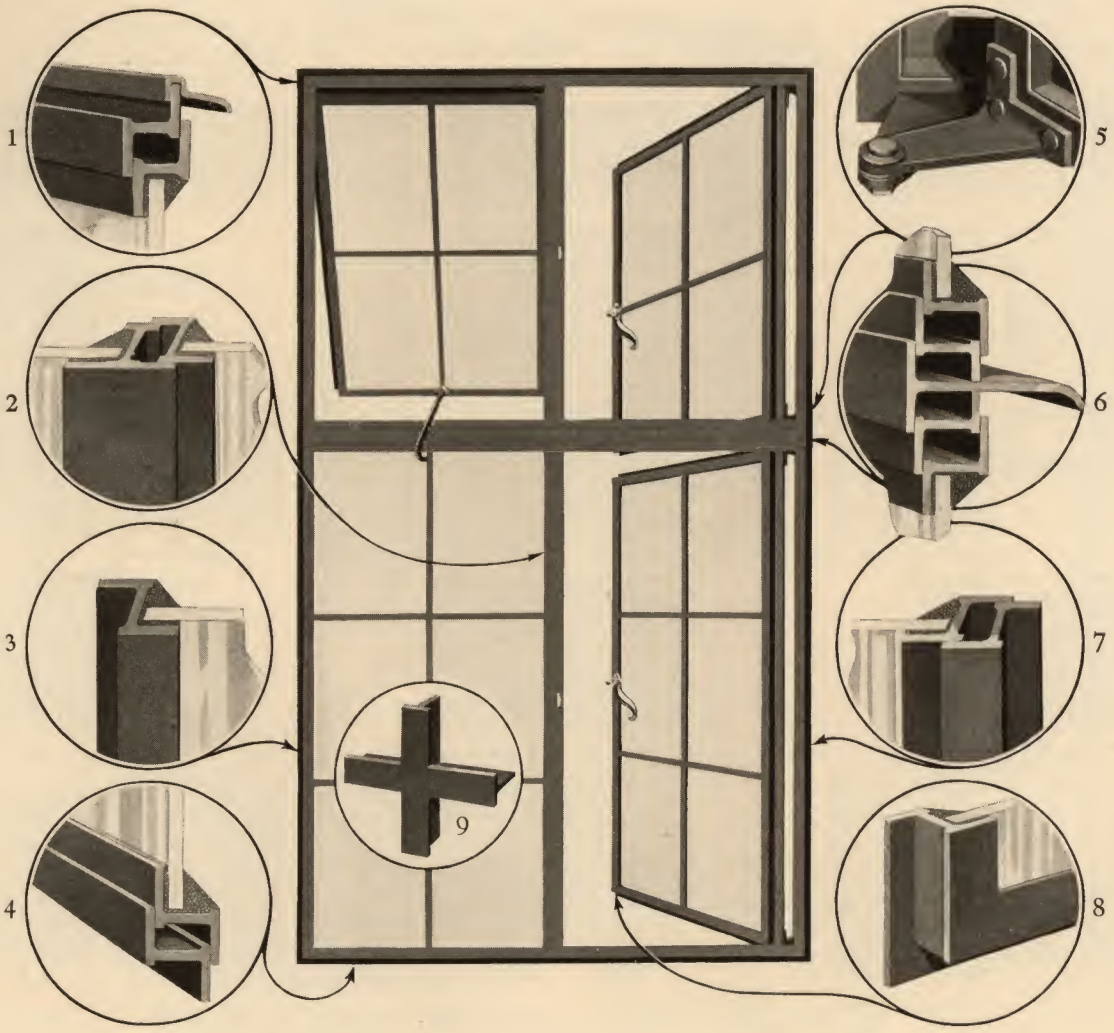
· MODEL · NO 5 ·

TRUSCON · STANDARD · CASEMENTS

· TRUSCON · STEEL · COMPANY · · YOUNGSTOWN · OHIO ·

C-21

· MARCH · 1928 ·



CONSTRUCTION DETAILS

1 Continuous Head Drip showing the shape and proper position when attached, forming a positive drip over swing portions of unit.

2 Vertical Meeting Rail of heavy hot-rolled section, smoothly finished on inside. Used in all combination units having both fixed and swing portions. The same detail as Transom Bar in combination with swing or fixed transoms.

3 Zee-Bar Sections used on outside frame members of all combinations and around swing portion of casement.

4 Sill Sections of Zee bars affording ease of erection in any type of construction; showing the wide lap double contact for positive weathering.

5 Friction Type Extension Hinge allows for the easy cleaning of windows on the outside and when adjusted has the proper amount of friction to hold the ventilator open in any desired position without the use of an adjuster.

6 Transom Bar, Tee section used between upper and lower units in transom combinations, forming a drip over lower ventilators.

7 Stiles of sash and frame of Zee sections showing the wide lap double contact and insulating air space and baffle that insures proper weathering.

8 Corners of Sash and Frame are mitered, electrically butt welded and ground smooth.

9 Muntin Intersections made with a mitered and mechanically interlocked joint obtaining the maximum strength of muntin bars and securing a neat, flush surface on the inside. Vertical and horizontal muntins are of the same size affording a uniform putty face and permitting a satisfactory glazed installation with plate or leaded glass.

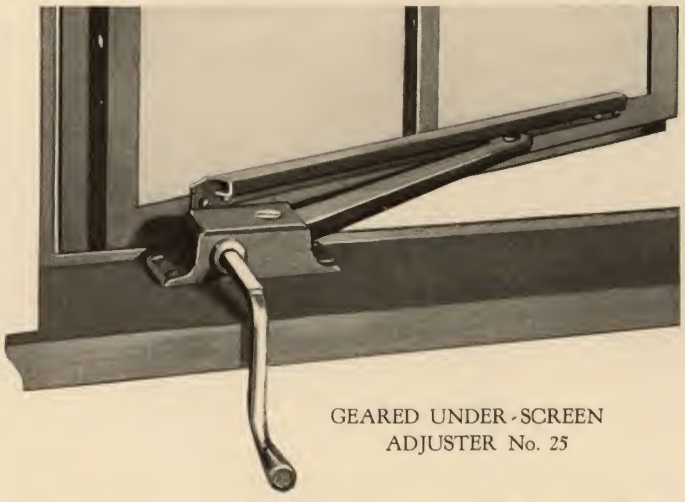
STANDARD CASEMENT HARDWARE



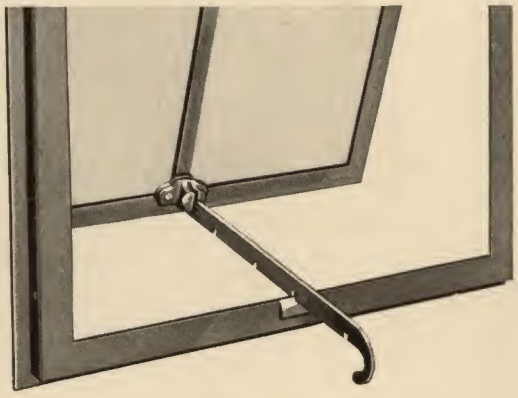
CAM ACTION LOCKING HANDLE



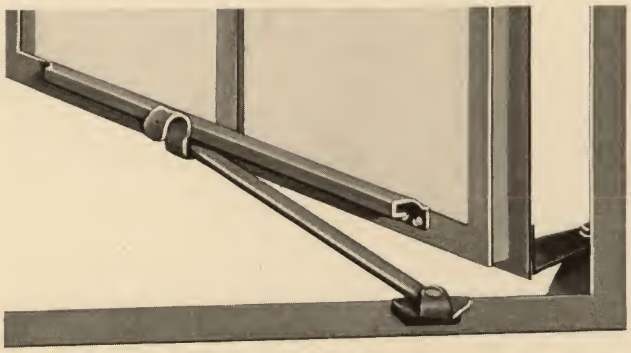
TRUSCON FRICTION TYPE EXTENDED HINGE



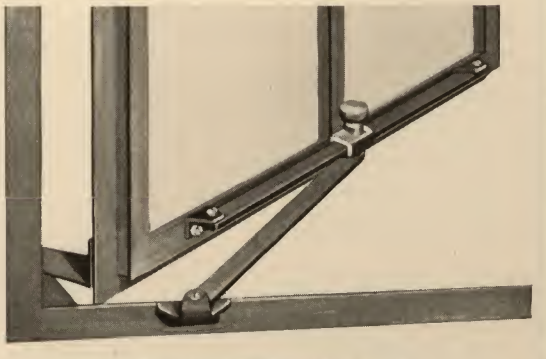
GEARED UNDER-SCREEN
ADJUSTER No. 25



TRANSOM STAY BAR
ADJUSTER E357



AUTOMATIC SLIDING ADJUSTER No. 61

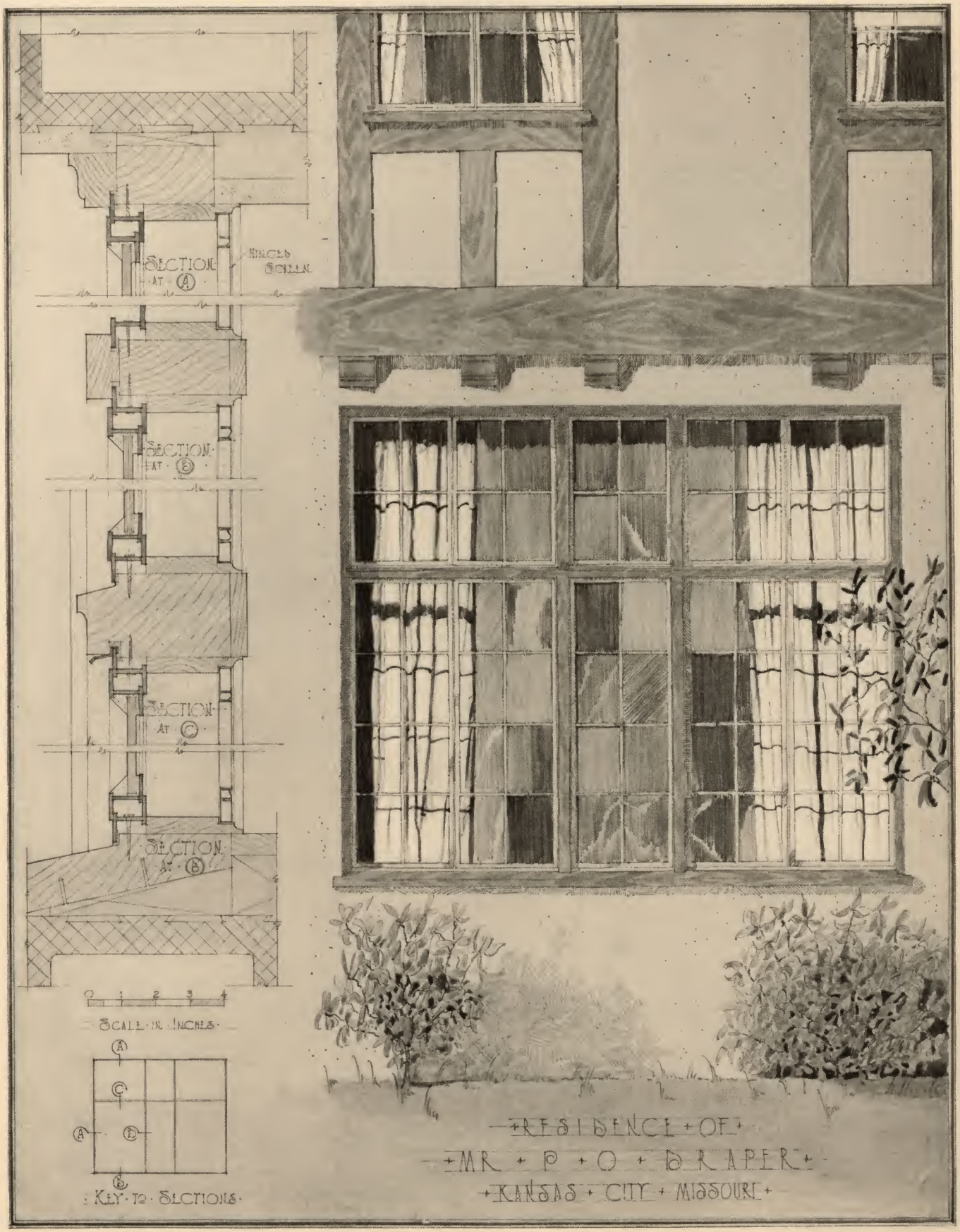


SLIDING THUMB SCREW ADJUSTER No. 30



RESIDENCE OF
MR P O DRAPER
KANSAS CITY MISSOURI

EDWARD W TANNER
ARCHITECT
KANSAS CITY MISSOURI


SECTION AT (A)
HINGED SCREEN
SECTION AT (B)
SECTION AT (C)
SECTION AT (D)
0 1 2 3 4
SCALE IN INCHES
A
C
A
E
D
KEY TO SECTIONS
RESIDENCE OF
MR P O DRAPER
KANSAS CITY MISSOURI



RESIDENCE · OF ·

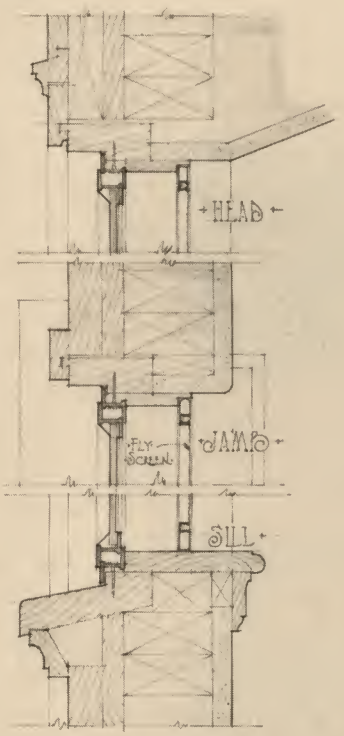
MR · R · L · GRAY ·

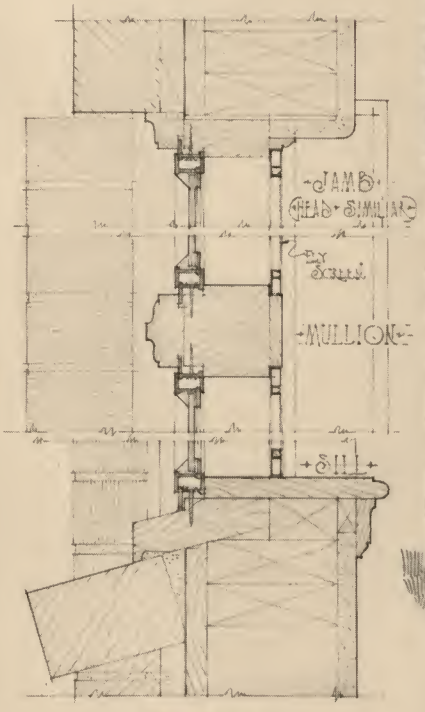
KANSAS · CITY · MISSOURI ·

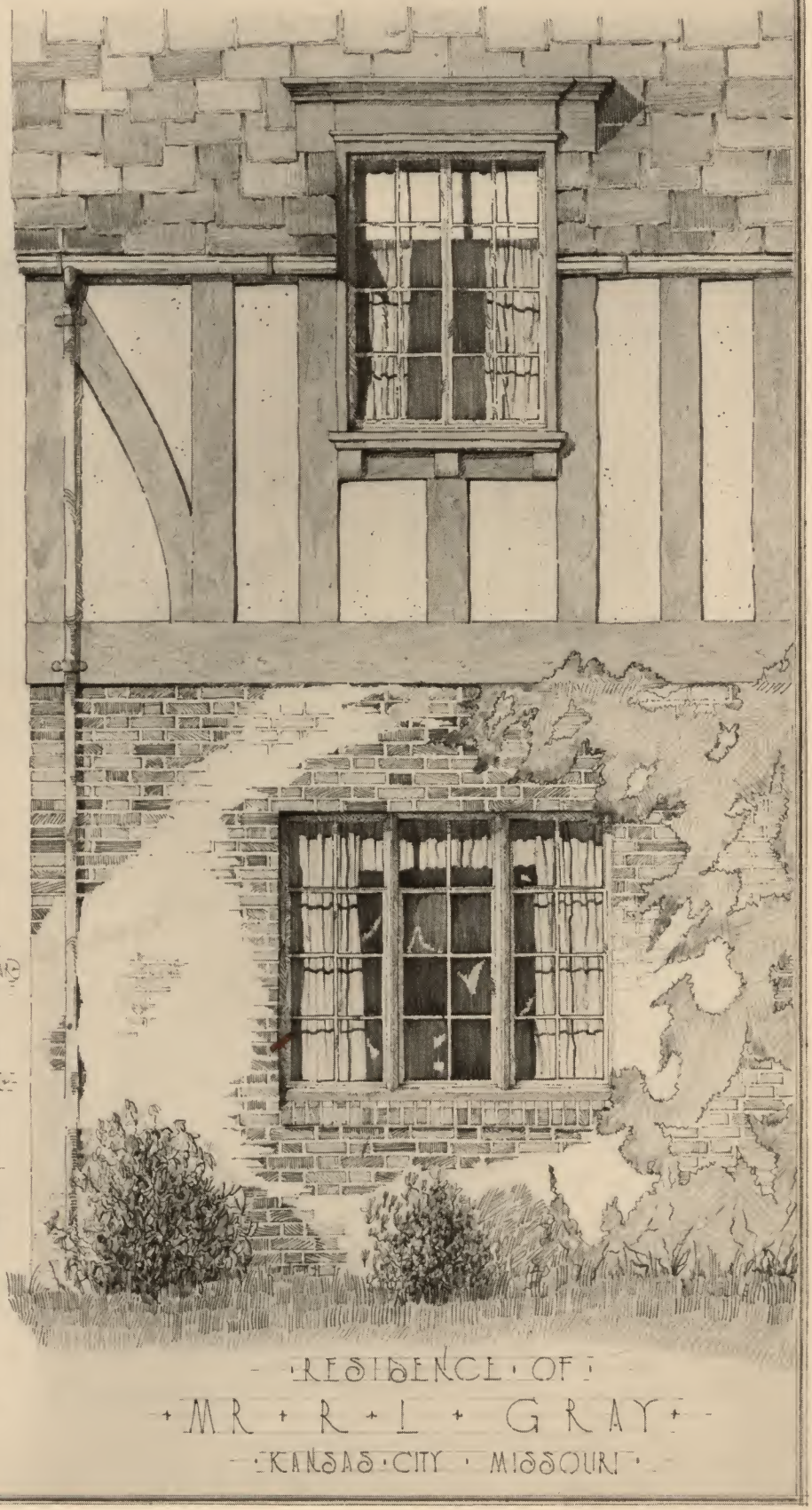
EDWARD · W · TANNER ·

ARCHITECT

KANSAS · CITY · MISSOURI


HEAD
FLY SCREEN
JAMB
SILL


JAMB
HEAD SIMILAR
FLY SCREEN
MULLION
SILL
0 1 2 3 4 5 6 7
SCALE IN INCHES


RESIDENCE OF
MR R L GRAY
KANSAS CITY MISSOURI



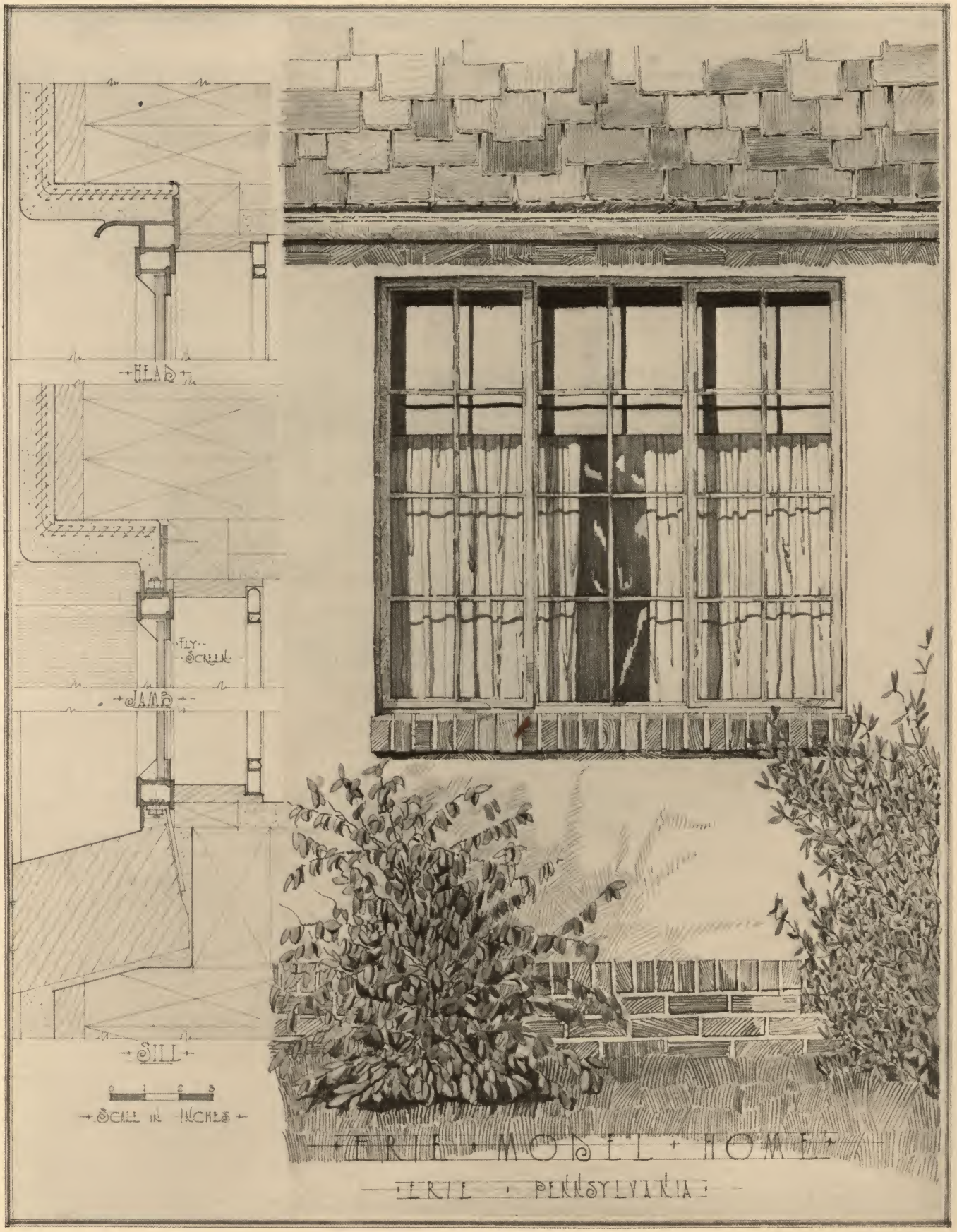
ERIE · MODEL · HOME

ERIE · PENNSYLVANIA

C · CLEMENT · KIRBY

ARCHITECT

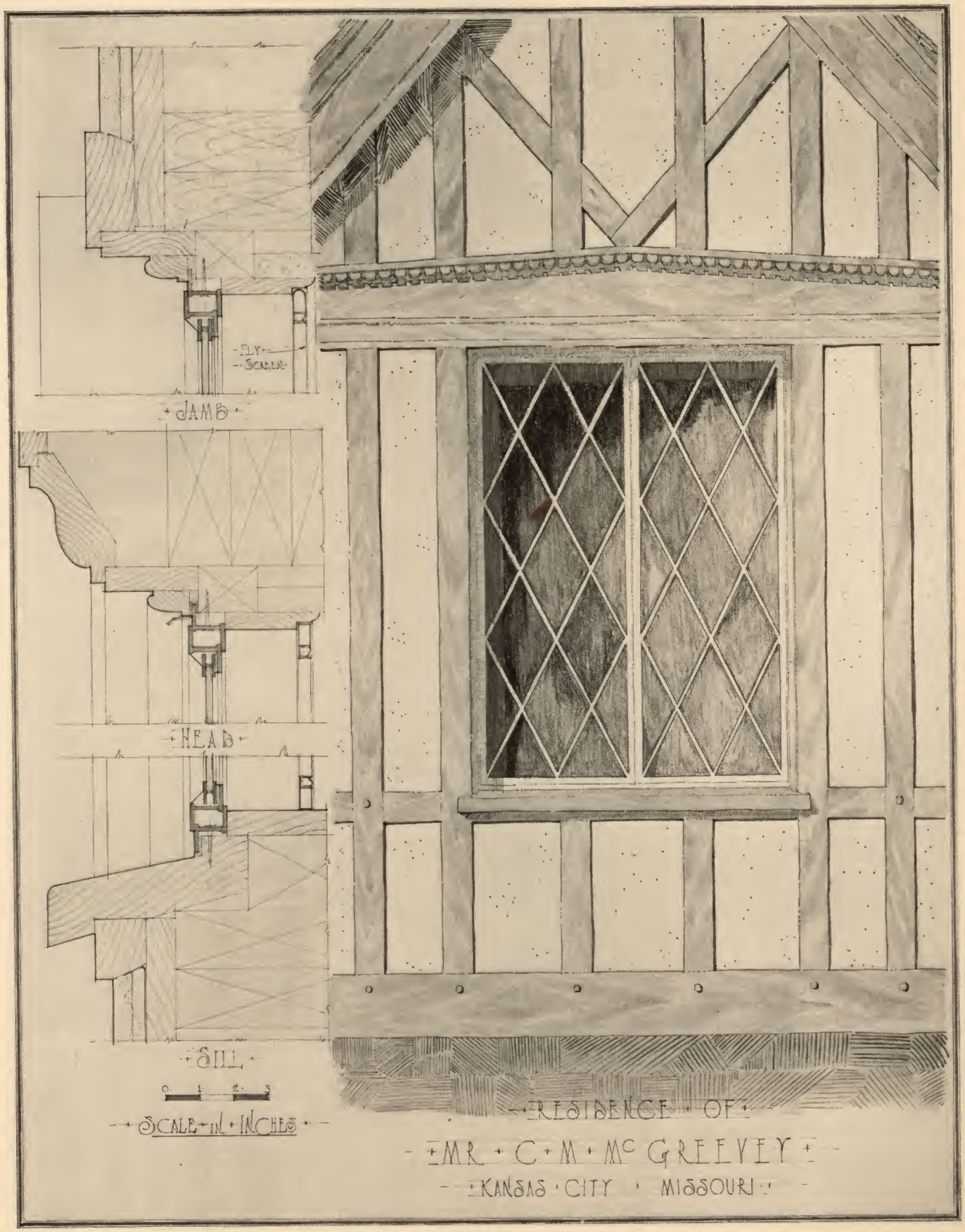
ERIE · PENNSYLVANIA

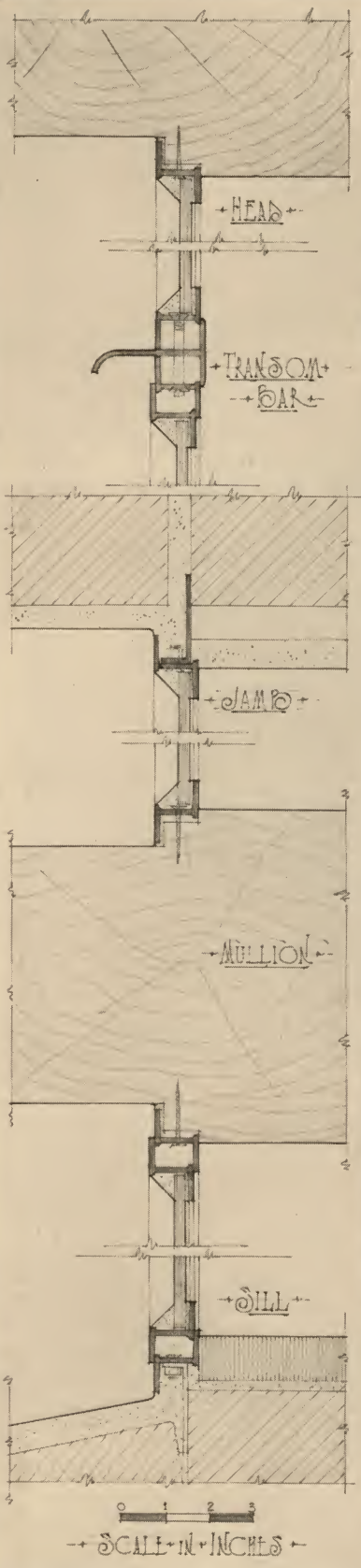

HEAD
FLY SCREEN
JAMB
SILL
SCALE IN INCHES
ERIE MODEL HOME
ERIE PENNSYLVANIA

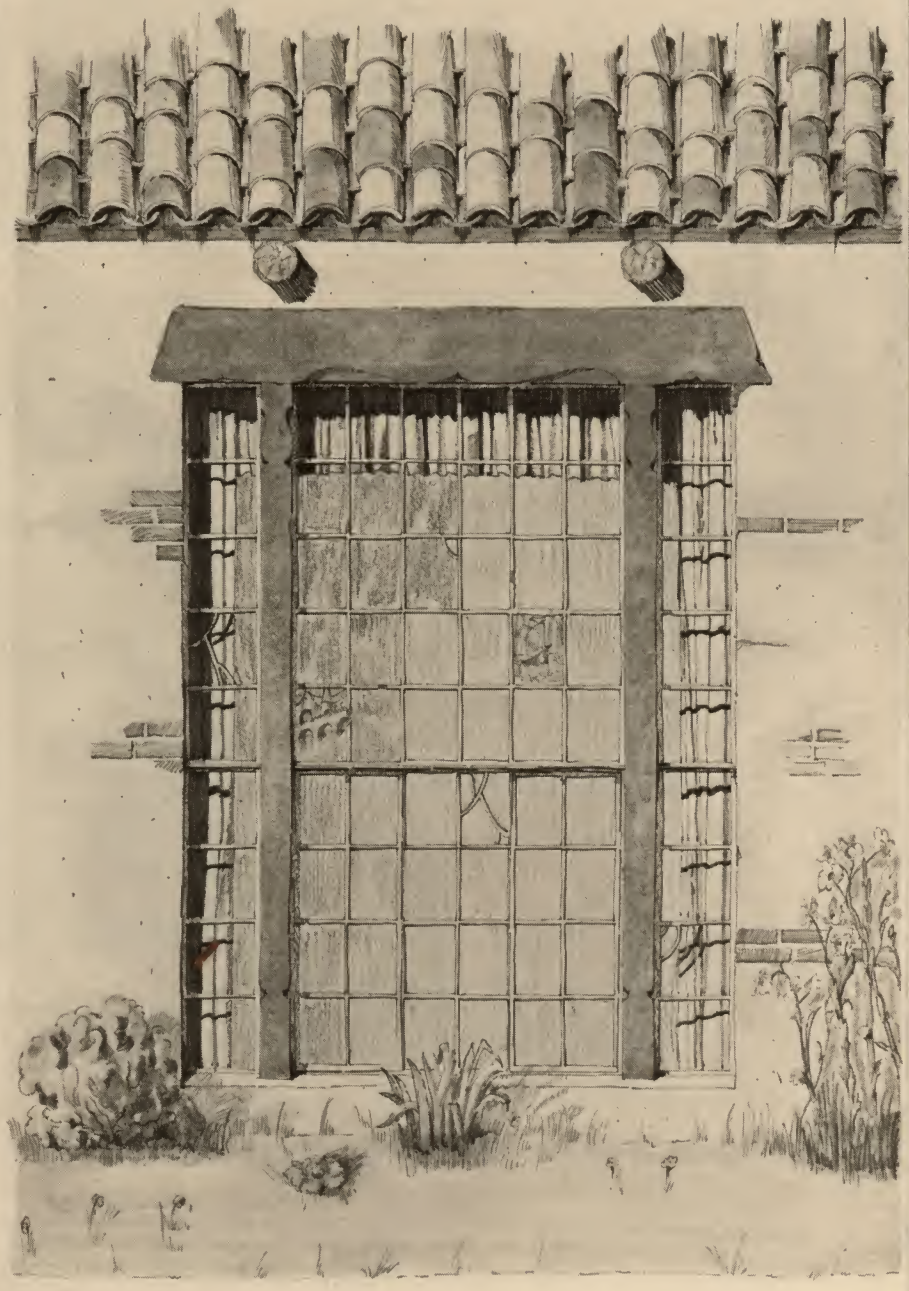


RESIDENCE OF
MR. C. McGREEVEY
KANSAS CITY, MISSOURI

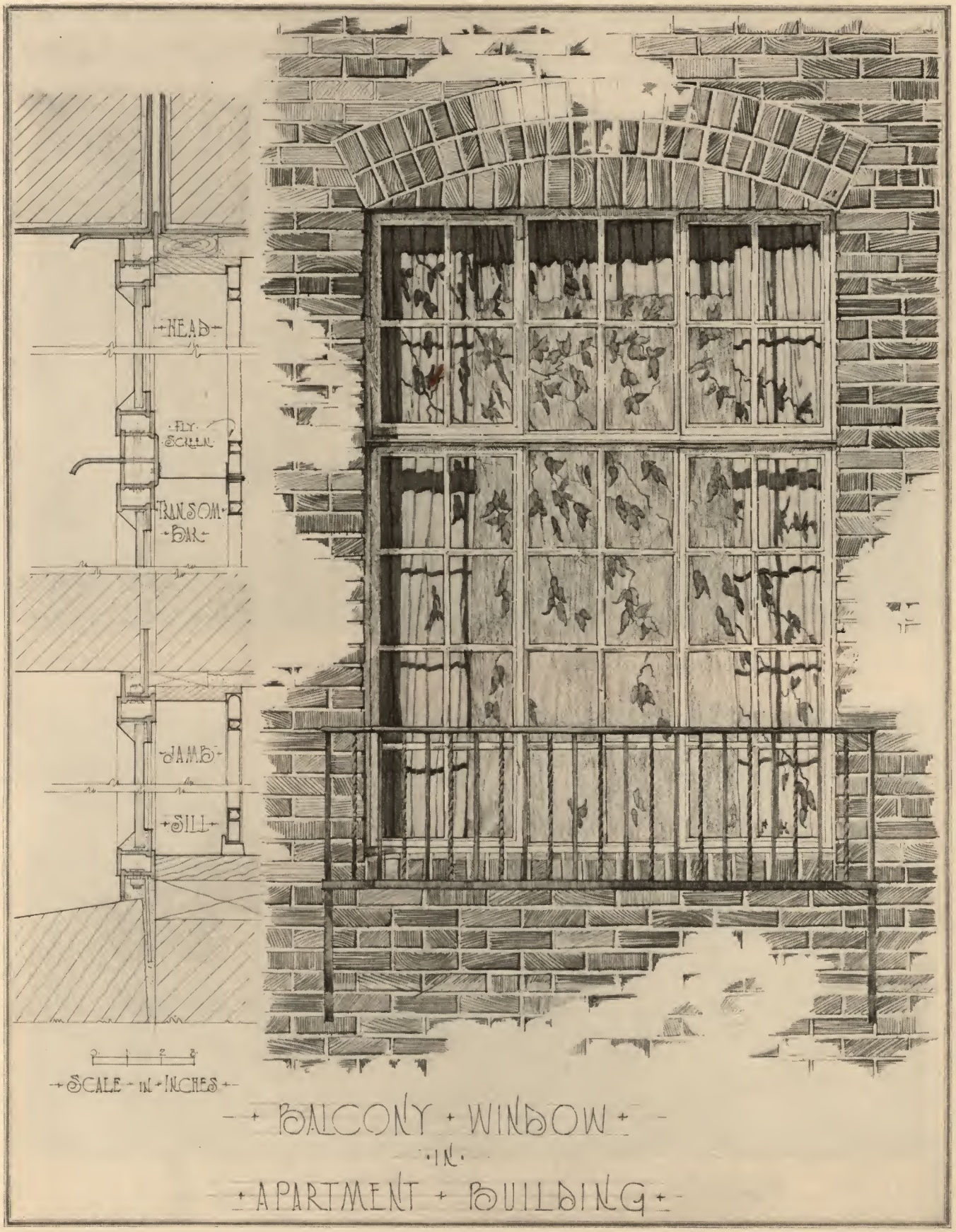
BUCKLEY & VAN BRUNT
ARCHITECTS
KANSAS CITY, MISSOURI


FLY SCREEN
JAMB
HEAD
SILL
0 1 2 3
SCALE IN INCHES
RESIDENCE OF
MR C M McGREEVEY
KANSAS CITY MISSOURI





STUDIO WINDOW
IN RESIDENCE
AT
MARSHALL TEXAS


HEAD
FLY SCREEN
TRANSOM BAR
JAMB
SILL
SCALE IN INCHES
BALCONY WINDOW
IN
APARTMENT BUILDING



ST. GEORGE SCHOOL, CHICAGO, ILL.

NORMAN BRYDGES, Architect — B. J. REGNALL CO., Contractors



VILLA MARIA ACADEMY, ERIE, PA.

FULLER & STICKLE, Architects — KIRSCHNER BROS., Contractors



Y. M. C. A. BUILDING, ST. PETERSBURG, FLA.
WOOLPERT & BROWN, Architects EDW. S. MOORE & SON, Contractors



NOTTINGHAM APARTMENTS, OMAHA, NEBR.
M. J. LAHR, Architect H. J. SKOGNAN & SONS, Builders



THE DRAKE APARTMENT HOTEL, NEW YORK CITY

EMERY ROTH, ARCHITECT
BING AND BING, INC., CONTRACTORS

SPECIFICATIONS

General

1 All window openings shown on drawings unless otherwise specified shall be fitted with a standard type of casement as manufactured by the Truscon Steel Company of Youngstown, Ohio. No substitution will be permitted without the written approval of the architect.

Scope of work

2 This contractor shall include in his work the furnishing of all steel casements complete, the adjusting after erection and before glazing, and the attaching of hardware as called for on drawings and covered in this specification.

Work and material not included

3 Glass, putty, glazing, field painting, caulking and painting after erection, insect screens or any preparation for same.

Material

4 Truscon specification, low carbon new billet hot rolled steel, shall be used in manufacture of all members.

Construction

5 (A) All casements and standard combinations shall be manufactured in complete units at factory. The nominal glass size shall be 8″ x 12″. (*See Plate C-21 on page 5.*)

6 (B) All frames, and stiles and rail members of swing leaves, shall be Zee bars. All corners to be mitered and electrically butt welded. Exposed faces at welds to be ground smooth.

7 (C) All muntins shall be Tee bars with a $\frac{5}{8}$″ face and a depth of $\frac{7}{8}$″, and shall be continuous between rails and stiles. At intersections there shall be a mechanical joint rigidly interlocking the muntins flush with face on the inside.

Joints of muntins with frames, stiles and rails shall be tenoned, mortised, and air hammer riveted. Horizontal muntins shall be punched for glazing clips (*see note*).

8 (D) All side hung swing leaves shall open outwardly and be equipped with heavy extension (cleaning) hinges that are securely riveted to rails of sash and electrically welded or riveted to frames.

9 (E) Hinges shall be of the special Truscon friction type, designed to rigidly hold window open in any desired position.

10 (F) Windows shall be hinged to swing right or left as indicated. Continuous double contact weathering between swing leaves and frame shall be provided.

11 (G) Where combinations of standard units are required for any single opening, vertical and horizontal mullions shall be used to join them.

12 (H) A continuous drip strip (flashing) shall be provided on transom bars of all standard swing leaf combinations.

Hardware

13 (A) All hardware shall be shipped unattached and packed separately to prevent damage and shall be applied after erection and painting.

14 (B) The cam action locking handle shall be of standard design furnished in malleable iron (black finish) and shall be attached to swing leaves (side hung). Provide notch at head of handle to allow restricted ventilation. Beveled brass strike plate shall be attached to frame (*see note*).

15 (C) Standard push bars shall be furnished for all top hung transom units.

Painting

16 Casements shall be given one dip coat of steel grey mineral paint at factory before shipment.

Glazing

17 All casements shall be glazed on the outside. Glass shall be held in place by Truscon copper clad, spring steel wire glazing clips. All glass shall be bed and face puttied with Truscon special metal window putty.

Erection

18 (A) Each unit must be set plumb and true, aligned after installation and adjusted before glazing.

19 (B) Mastic in sufficient quantity shall be used in setting and bedding frames where they come in contact with mullions or wall construction (*see note*).

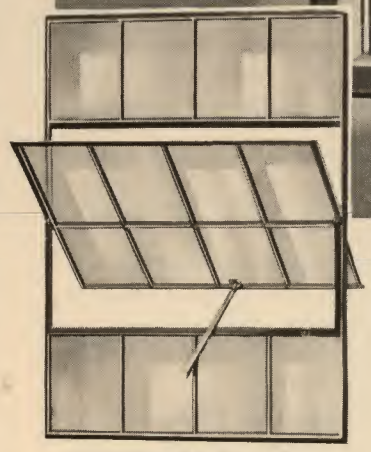
(Where so desired, the Erection Division of Truscon Steel Company will contract for the erection and adjusting of all casements in prepared openings.)

NOTES:—Muntin bars may be omitted for use of leaded glass of any pattern, or for single lights of polished plate or other kinds of glass. Glazing clips and mastic (1 lb. to 10 lin. ft.) are furnished and shipped with casements without additional charge.

Cam locking handles can be supplied in bronze, polished or oxidized finish, at an additional cost. Architect to specify type and finish. Sill rails are drilled to accommodate standard adjuster and operators of various types if required, in addition to friction hinge.



COPPER STEEL BASEMENT WINDOWS



PIVOTED STEEL WINDOWS

FOR THE BASEMENT AND THE GARAGE

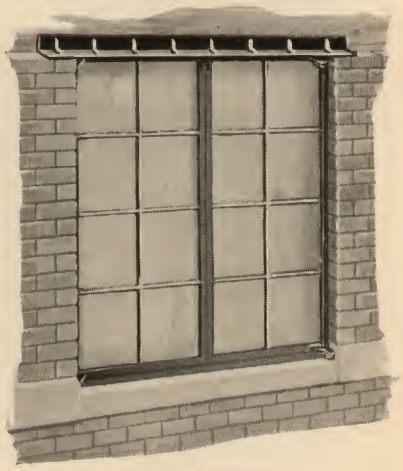
STEEL DOORS

ECONOMICAL steel products in keeping with modern requirements for maximum daylight, fire-safety and utility in the basement and the garage.

TRUSCON COPPER STEEL BASEMENT WINDOWS: Installed in any type of foundation. Open and close easily; readily screened; never stick, leak or need repairs. Neat and trim in appearance; made of rust-resisting copper steel or hot-dipped galvanized. Available in four standard sizes and furnished complete for installation; no hinges or locks to buy, no fitting of sash to frame and no priming coat of paint to apply. Cost no more than ordinary windows and add 50% to 80% more daylight.

TRUSCON STANDARD STEEL DOORS: Swing and slide types, single or double units. All doors ars equipped with suitable hardware.

TRUSCON PIVOTED STEEL WINDOWS: Utility windows in many popular sizes; delivered ready for installation. Erection is simple. Hardware furnished.



STEEL LINTELS

For Veneer Walls or Solid Walls, with steel or wood doors or windows, in plain openings and flat archways, Truscon Standard Steel Lintels take care of every need.

TRUSCON
Standard
CASEMENTS
MODEL No. 5

TRUSCON
Standard
CASEMENTS
MODEL No. 5

Digitized by:



ASSOCIATION FOR PRESERVATION TECHNOLOGY
www.apti.org

For the

BUILDING TECHNOLOGY HERITAGE LIBRARY

https://archive.org/details/buildingtechnologyheritagelibrary

From the collection of:



SOUTHEASTERN ARCHITECTURAL ARCHIVE
SPECIAL COLLECTIONS
HOWARD-TILTON MEMORIAL LIBRARY

http://seaa.tulane.edu